

INSIGHT SCHEDULE OF SERVICES TO BLOOMBERG NEW ENERGY FINANCE CUSTOMER AGREEMENT

BLOOMBERG: BLOOMBERG FINANCE L.P.
 CUSTOMER: ENERGY POLICY AND PLANNING OFFICE
 DEPARTMENT: _____
 ORDER DATE: 01/06/2016
 ACCOUNT No: 30194595
 ORDER No: 23475422

EQUIPMENT ADDRESS: ENERGY POLICY AND PLANNING OFFICE 121/1-2 PHETCHABURI ROAD RATCHATHEWI BANGKOK 10400 (City) (State/Province) (Postal Code) Thailand	BILLING ADDRESS: ENERGY POLICY AND PLANNING OFFICE 121/1-2 PHETCHABURI ROAD RATCHATHEWI BANGKOK 10400 (City) (State/Province) (Postal Code) Thailand
USER CONTACT: SITTICHAH OPATVACH 6626121555	BILLING CONTACT: MR SOPON KLANJIT 662-612-1555

Bloomberg and Customer are parties to that certain BLOOMBERG NEW ENERGY FINANCE CUSTOMER AGREEMENT Number 2937382 (the "Agreement") which sets forth the terms and conditions under which Bloomberg provides to Customer the Services described therein. Capitalized terms which are not defined herein shall have the meanings stated in the Agreement.

QUANTITY OF USERS	TYPE OF SERVICES/EQUIPMENT ORDERED	Annual Total:
3	BNEF All 3+ Workgroup:	\$66000.00
PO#		

TERMS AND CONDITIONS

The BNEF All 3+ service provided under this Schedule (the "BNEF All 3+ Insight Service") is an "Insight Service" under the Agreement. The BNEF All 3+ Insight Service shall initially include the Insight Services of all Energy Sectors; provided that hereafter Bloomberg may determine, in its sole discretion, the composition of the BNEF All 3+ Insight Service and shall have the right to cease providing any particular Energy Sector of an Insight Service. Paragraph 1(d) of this Schedule shall not apply to the BNEF All 3+ Insight Service. The BNEF All 3+ Insight Service is offered at prevailing rates, currently \$22,000 annually per-User, and the Customer must maintain a minimum of three (3) Users. Each subscription is for the use of a single individual employee or consultant of Customer. Customer may add Users to the BNEF All 3+ Insight Service at any time upon notice to Bloomberg in the manner specified by Bloomberg. If Customer adds a User in the middle of a quarterly billing period, Customer shall pay the pro-rated portion of the additional fee for such User from the date the Services are first provided to such User until the end of the quarter. The Schedule Term for each such User shall be the same as the Schedule Term of the first-executed, then-effective Insight schedule for the BNEF All 3+ Insight Service. Customer may reduce the number of Users exceeding three (3) Users for the BNEF All 3+ Insight Service at any time upon (i) sixty business days' notice to Bloomberg in the manner specified by Bloomberg from time to time and (ii) payment of the portion of the termination fee set forth in Paragraph 5(b) of the Agreement related to such User. Notwithstanding anything to the contrary contained in this Schedule, the initial Schedule Term shall be from May 1, 2016 until November 30, 2016. The Schedule shall automatically renew for successive one-year periods unless terminated in accordance with the terms of the Agreement and Schedule. During the initial Schedule Term only, the Insight fees, as pro-rated based on the Annual Total on the table above, shall be \$38,500.00. Bloomberg and Customer expressly agree that the Agreement as defined above, including any amendments/addenda, continues to be valid and binding on the parties herein, and the terms and conditions of the Agreement shall govern the Services referred to in this Schedule and such other Services under schedules referencing the same Bloomberg New Energy Finance Customer Agreement number 2937382.

1. TERMS & CHARGES

- (a) The Insight Services are part of the Services. The Additional Services and all installations, upgrades, removals, relocations, conversions, equipment modifications and other changes related to the Services shall automatically be charged at Bloomberg's prevailing rates and Customer shall be invoiced accordingly.
- (b) The initial term of this Schedule is from the first day Services or additional Services are provided to the first anniversary of that date (the "Schedule Term"). The Schedule Term shall be automatically renewed for successive two-year periods unless Customer or Bloomberg elects not to renew by giving not less than 60 days' prior written notice to the other. This Schedule shall automatically terminate upon termination of the Agreement. The fee commences on the first date of the Schedule Term and shall be invoiced quarterly in advance. All amounts displayed on this Schedule are in U.S. dollars. To the extent permitted by law, Bloomberg may send and Customer agrees to receive invoices via electronic mail. Any fee increase of which Customer is notified in accordance with the Agreement or this Schedule will take effect as specified notwithstanding the issuance of a Schedule setting forth the then-current fee.
- (c) The Annual Total does not include any levies or fees imposed or charged by Bloomberg or a third party in connection with Additional Services. All applicable taxes, including, without limitation, sales tax, VAT, GST and similar taxes, shall be in addition to the charges for the Services, and shall be the responsibility of Customer. If tax-exempt, a copy of the State/Foreign Tax Exempt Certificate must be submitted upon signing the Agreement.

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(d) The annual minimum Insight fee for each Energy Sector, as set forth above, is per department or work group ("Workgroup"). This minimum shall apply for up to three Users in a Workgroup. If Bloomberg determines in its sole good faith judgment that Users are from different Workgroups, Bloomberg may require Customer to pay an additional minimum fee for the first three Users in each distinct Workgroup. For each additional User added to a Workgroup (each, an "Additional User" and included in the term "User"), Customer shall pay the additional annual fee in each applicable Energy Sector in accordance with Bloomberg's then prevailing rates. Customer may add Users to a given Energy Sector at any time upon notice to Bloomberg in the manner specified by Bloomberg. If Customer adds a User in the middle of a quarterly billing period, Customer shall pay the pro-rated portion of the additional fee for such Additional User from the date the Services are first provided to such Additional User until the end of the quarter. The Schedule Term for each Additional User shall be the same as the Schedule Term of the first-executed, then-effective Insight schedule for the Workgroup. Customer may reduce the number of Users for a given Energy Sector at any time upon 60 business days' notice to Bloomberg in the manner specified by Bloomberg. If Customer removes any Additional User or all of the Users in a Workgroup, Customer shall pay the portion of the termination fee set forth in the second sentence of paragraph 5(b) of the Agreement related to such Additional User or Workgroup.

2. FORM

- (a) Customer acknowledges and agrees that Bloomberg may delegate certain of its responsibilities, obligations and duties under or in connection with this Schedule, the Agreement and any other schedule or addendum related to the Agreement to a third party or an affiliated company of Bloomberg, which may discharge those responsibilities, obligations and duties on behalf of Bloomberg.
- (b) This Schedule, including any modifications, waivers or notifications relating thereto, may be executed and delivered by facsimile, electronic mail, or other electronic means, including via a website designated by Bloomberg by completing the procedures specified on that website. Any such facsimile, electronic mail transmission, or communication via such electronic means shall constitute the final agreement of the parties and conclusive proof of such agreement, and shall be deemed to be in writing and to have the same effect as if signed manually. Customer agrees that it has the ability to store the information delivered to Customer electronically such that it remains accessible to Customer in an unchanged form. For inquiries, please contact Bloomberg L.P., operating agent of Bloomberg Finance L.P., at 731 Lexington Avenue, New York, NY 10022, Telephone: (212) 318-2000, Facsimile: (917) 369-5540, or any successor operating agent or other party as specified by Bloomberg Finance L.P. from time to time.

Agreed to by:
ENERGY POLICY AND PLANNING OFFICE

 Company Name

Agreed to by:
BLOOMBERG FINANCE L.P.
 By: BLOOMBERG (GP) FINANCE LLC,
 General Partner

 Signature (Duly authorized signatory, officer, partner or proprietor)

 Name (Please type or print)

 Title (Please type or print)

 Date
 BLOOMBERG, BLOOMBERG PROFESSIONAL, BLOOMBERG MARKETS, BLOOMBERG NEWS, BLOOMBERG TRADEBOOK, BLOOMBERG BONDTRADER, BLOOMBERG TELEVISION, BLOOMBERG RADIO, BLOOMBERG.COM and BLOOMBERG ANYWHERE are trademarks and service marks of Bloomberg Finance L.P., a Delaware limited partnership, or its subsidiaries. All rights reserved.

 Signature of Authorized Signatory

 Date
 600073699.3



Leveraging the power of Bloomberg

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NEW ENERGY FINANCE

Bloomberg

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NEW ENERGY FINANCE

Since 1981



Since 2004

Over 15,000 employees
in 192 locations



200 employees
in 15 locations on six continents

Generating 5,000 news stories
per day from 150 bureaus



Generating over 700 Insight
reports annually

320,000 global clients



2,500 global clients

**BLOOMBERG NEW
ENERGY FINANCE**

Overview for EPPO 2015

Bloomberg
NEW ENERGY FINANCE

2,500 clients in over 50 countries

Public Sector & NGOs



Finance & Investment



Supply Chain & Technology

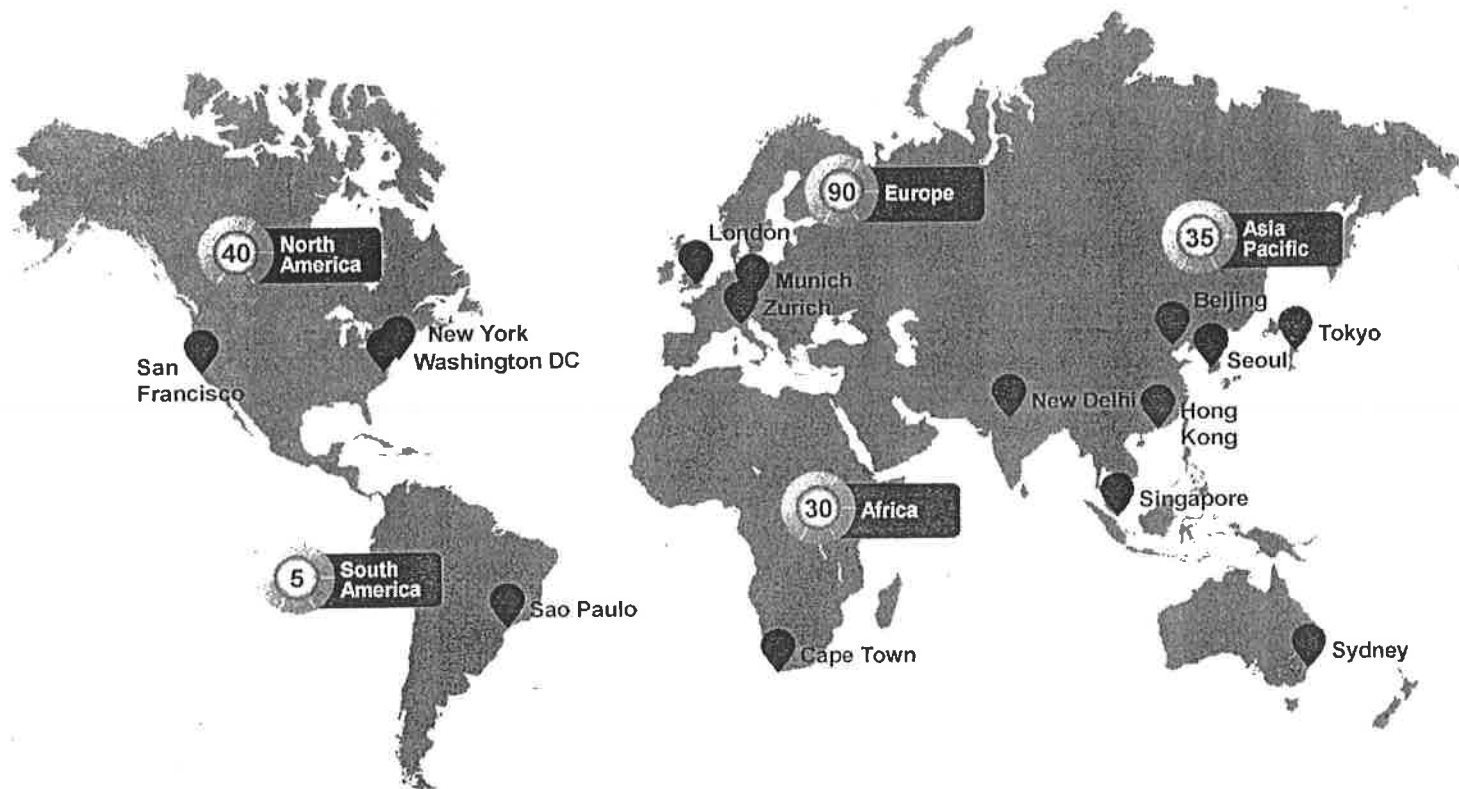


Utilities & Energy



The logos listed do not represent a full client list. They are illustrative of the organizations we have worked with in the past.

200 experts across six continents



Analysis

- Demand forecasts for 36 major photovoltaic markets, by segment
- Bankability study and tiering based on historical product choice
- Deep understanding of trade wars and PV system economics

Indexes & Data

- Chinese and Taiwanese Monthly Shipments Survey
- Solar Spot Price Index
- PV Operations and Maintenance Index
- Solar manufacturing plants database
- Solar projects database

Models & Tools

- Supply curve for polysilicon, supply analysis updated quarterly
- Asset database of benchmark financing and acquisition deals
- Supply model based on database of manufacturing plants worldwide

Tools for you

- 1 Market outlooks and long-term forecasts to inform business strategy
- 2 Price indexes and benchmarks to monitor markets and refine sales
- 3 Supply/demand forecasts, pricing models and curated news to develop accurate projections
- 4 Asset database, valuation tools and market sizing to screen assets and source deals
- 5 Country profiles, policy database and LCOE analysis to track policy impact and develop recommendations
- 6 Pricing, organization, project and asset databases to support research reports

Products to help you understand the future of energy



Solar



Wind



Other Renewables



Gas



Energy Smart Technologies



Advanced Transport



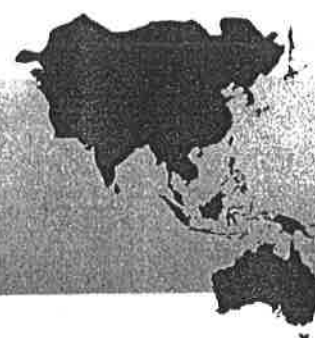
Carbon & RECs Markets



Americas



Europe, Middle East & Africa



Asia Pacific

Analysis

- Well-level production and breakeven price modelling of 80 different North American oil & gas plays
- Access to a local team of experts and their continuous monitoring and analysis of the industry

Indexes & Data

- Facility-level data on North American gas consumers, including both power plants and chemicals facilities

Models & Tools

- Drilling and completion forecasting tools
- **Bloomberg New Energy Finance's in-house Gas Integrated Production and Pricing Model – The GIPPer.** It is used for our long-term forecasts of drilling, production and pricing in North America.
- **The Medium-Term Production Model –** Underpins our short-to medium-term (1-3 year) production forecasts, after which point the GIPPer model is utilised

Tools for you

- 1 **Market outlooks and long-term forecasts** to inform business strategy
- 2 **Price indexes and benchmarks** to monitor markets and refine sales
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RECENT ANALYSIS THROUGH OUR SOLAR SERVICE

Q4 2015 PV MARKET OUTLOOK

At the close of another year of record high volumes and record low prices, the PV market globally is ready for another year of expansion in 2016. The US and China are particularly explosive hotspots.

CHINA PROPOSES LOWER PV FEED-IN TARIFFS THROUGH 2020

On 29 October, China's National Development and Reform Commission made a proposal to lower PV and wind feed-in tariffs for 2016-2020. We focus on PV in this note and examine impact of the proposed changes.

AUSTRALIA ON THE CUSP OF A ROOFTOP SOLAR REVOLUTION

Australia's small-scale PV industry has entered its third year of stagnation. Beneath the surface however, the industry is restructuring. By 2030, half of Australian homes are likely to have a PV system and nearly 10% should have energy storage.

INDIA AUCTIONS SOME OF ITS MOST ATTRACTIVE PV PROJECTS

After a pause of almost 18 months, India has launched a set of 1.4GW tenders under the flagship national Solar Mission. In this Analyst Reaction, we analyse the major changes that could make these the most sought-after and bankable contracts.

CHINESE INVESTORS BAT FOR RENEWABLES IN PAKISTAN

Pakistan is seeing a surge in activity as China pumps money into its "all-weather" friend. China's Zonergy is developing 900MW of solar. Operational wind projects are set to reach 1GW next year. This note looks at the projects and the investors.

IS JAPAN'S RESIDENTIAL SOLAR READY TO SHINE AGAIN?

Many players are considering electricity retail business models relying on rooftop solar in Japan. This note examines the current status of the Japanese residential PV market and its economics, and the business strategies of the new players.

Analysis

- Up-to-date coverage of global smart metering roll outs
- End-to-end coverage of energy storage value chain
- Tracking utility energy efficiency programs
- Electric vehicle industry partnerships
- Trends in LED lighting
- Cost comparison of energy storage technology
- Application of communications to transmission and distribution
- Developments in demand response
- Industry and utility strategy

Indexes & Data

- Smart grid and energy storage project database
- Electric vehicle model database
- Electric vehicle battery index
- LED/smart street lighting projects database
- Quarterly energy efficiency market trends data (UK)
- Up-to-date market size for smart grid, energy storage and efficiency

Models & Tools

- Forecast tools for energy storage and smart grid
- Energy efficiency building technology investment model

Tools for you 

- ① **Market outlooks** and long-term forecasts to inform business strategy
- ② **Price indexes** and benchmarks to monitor markets and refine sales
- ③ **Supply/demand forecasts, pricing models** and curated news to develop accurate projections
- ④ **Asset database, valuation tools** and market sizing to screen assets and source deals
- ⑤ **Country profiles, policy database** and LCOE analysis to track policy impact and develop recommendations
- ⑥ **Pricing, organization, project** and asset databases to support research reports

RECENT ANALYSIS THROUGH OUR GAS SERVICE

• **Q3 2015 EUROPEAN GAS MARKET OUTLOOK**

Winter gas prices are likely to remain low as high storage volumes and cheap Russian imports weigh on the spot market. Long-term, we foresee a face-off between Russian gas and LNG, as Europe imports more gas to make up for lower domestic production.

• **H2 2015 GLOBAL LNG MARKET OUTLOOK**

New demand in Egypt, Pakistan and Jordan combined with Yemeni LNG being offline has offset new supplies from elsewhere and lower demand from South Korea. The LNG supply glut has been temporarily averted, but a new era of oversupply will begin soon.

• **PRE-FID LNG EXPORT PROJECT ASSESSMENTS**

Three issues threaten the potential of many planned LNG projects: a possible oversupply of LNG, low oil prices and a scaling back of capital expenditure by oil and gas firms. We assess the potential of individual projects in the current environment.

• **OIL & GAS WELLHEAD CALCULATOR**

This is the model we use for determining the economics of oil and gas plays across North America. It also contains our default data for the 80 plays that we model.

• **GLOBAL LNG CONTRACTS DATABASE – UPDATE**

The database provides price, counterparty, time period and volume related information on global LNG contracts. This update includes an easy-to-use interface, latest deals in H1 2015 and enhanced details on Australian and US LNG export projects.

• **WILL DECREASING OIL PRODUCTION IMPACT THE GAS MARKET?**

Three oil plays currently account for 23% of gross US gas production. Collapsing oil prices challenge the economics of these so-called 'Big Three' – the Eagle Ford, Permian and Bakken. We have updated our basin-level production forecasts.

Analysis

- Demand forecasts for all major markets
- Analysis of policy and regulatory impacts
- Data on finance and investment in companies and assets
- M&A trends and valuation studies by region
- Product and technology trends across entire supply chain
- Analysis of capacity factors and project performance
- In-depth analysis of emerging business models in wind asset management

Indexes & Data

- Progress of 20,000+ wind projects in over 80 countries from early development to repowering and retirement
- Proprietary pricing indexes for turbines and O&M service contracts based on actual signed contracts
- Industry data across entire value chain — 40,000+ organizations
- Country profiles, key policies and subsidies, comparison of incentives levels across different markets
- Asset maps, PPAs, turbine contracts, league tables and more available through online database

Models & Tools

- Bottom-up demand forecast models
- Asset valuation model for wind projects
- Cost of energy model for onshore and offshore wind
- End-to-end supply chain analysis
- Regional energy mix models — how does wind fit into the larger picture

Tools for you

- 1 Market outlooks and long-term forecasts to inform business strategy
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RECENT ANALYSIS THROUGH OUR **EST** SERVICE

- **Q4 2015 DIGITAL ENERGY MARKET OUTLOOK**
Demand response was prominent this quarter in the US and Europe while smart metering activity picked up in Europe and China. Japanese utilities continue building partnerships in preparation of retail liberalisation.
- **ENERGY SMART TECHNOLOGIES INVESTMENT: Q3 2015 FACTPACK**
Bloomberg New Energy Finance VC/PE, public markets and M&A data showing trends in global energy smart technologies investment up to Q3 2015.
- **BEYOND THE BATTERY: IMPROVING EFFICIENCY IN EVS**
Automakers are increasing efforts to improve efficiency of electric vehicles. In this Research Note, we analyse strategies for reducing energy losses, their impact on range and the supply chain for associated technologies.
- **VW SCANDAL: DIESEL'S LOSS, ELECTRIC VEHICLES' GAIN?**
VW has admitted to deceiving emission tests in the US affecting 482,000 US vehicles going back to 2008. The announcement will have an impact on VW's positioning in the US, but also on the future of diesel vehicles, emissions and EVs.
- **LITHIUM-ION BATTERY MANUFACTURING CAPACITY FOR EVS**
As of 2015, there is 37 GWh of global EV lithium-ion battery manufacturing capacity online. 2015 demand is estimated at 9.7 GWh. BNEF provides details on the top manufacturers, chemistries, geographies and consumers of lithium-ion EV batteries.
- **ENERGY STORAGE IN PJM – A PRIMER**
Energy storage has the potential to displace gas turbines in meeting peak demand. We assess the economics of such displacement, as well as the prospects for storage in PJM's markets for energy, ancillary services and capacity.

INSIGHT SERVICE				
Users	SOLAR INSIGHT	GAS INSIGHT	EST INSIGHT	WIND INSIGHT
3	USD 30,000	USD 30,000	USD 30,000	USD 30,000

INSIGHT SERVICE	
Users	BNEF-all
3	USD 66,000

- Prices quoted are per annum
- Prices quoted do not include local taxes

RECENT ANALYSIS THROUGH OUR WIND SERVICE

• **Q4 2015 GLOBAL WIND MARKET OUTLOOK: BOOM TIMES**

In 2015, we expect a total of 63.7GW for 2015 both onshore and offshore, and have revised our 2016 forecast upwards to 63.2GW. This is due to China where we have increased our forecast by 4.5GW due to a surge of new projects financed.

• **H2 2015 AUSTRALIA ENERGY MARKET OUTLOOK**

Could a change in government, a Renewable Energy Target agreement and strong small-scale economics be enough to restore Australia's debilitated energy sector? In this Market Outlook, we analyse these factors and present our outlook for the sector.

• **PORTFOLIO HUNTERS 2014: AMERICAS WIND**

Transaction volumes are surging in the US, but declining in Canada and Latin America. We analyse the volumes, key players and pricing of the key M&A markets to explain the diverging trends across the Americas.

• **OFFSHORE WIND O&M STRATEGIES**

BNEF expects up to 49GW of European offshore wind to be commissioned by 2025. This note sheds light on what type of maintenance strategies operators have in mind for this capacity, and the service providers that will compete to provide O&M services.

• **2015 OFFSHORE WIND DEVELOPER MARKET SHARE**

Who are the leading offshore wind developers? In this note we rank offshore wind developers for European projects. We include both commissioned projects, as well as projects that have secured finance or under construction.

• **WHAT LIES BEHIND CHINA'S WIND CURTAILMENT RISE?**

China's NEA recently released H1 wind curtailment data . It shows that grid congestion has significantly worsened in the first half of the year, and average wind curtailment rate has increased to over 15%. We analyse the causes and impacts.

MARKETS

Renewable Energy
Energy Smart Technologies
Advanced Transport
Gas
Carbon and RECs

SERVICES

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Why BNEF-ALL is the most value for money

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NEW ENERGY FINANCE

CURRENT SUBSCRIPTION

- 2015 fees at USD 42,250 (+taxes) a year with old pricing and cross sector discount
- 2016 fees will be USD 86,000 (+taxes) a year for three seats
- Current arrangement gives access to;
 - APAC (3 seats) USD 56,000
 - Energy Smart Technologies (3 seats) USD 30,000
- **No access to**
 - Gas
Global, LNG, US supply & demand, EU supply & demand, APAC supply and demand trends
 - Regional Power Market Analysis
Europe, North America,
 - Global renewables
 - Advanced Transport
Electric Vehicles, Fuel Cells, Biofuels, Energy Efficiency, Connected Cars, New Business Models

BNEF-ALL CORPORATE LICENSE

- USD 66,000 (+taxes) a year for 3 users
- Access to all BNEF research output for all 3 users
- **BNEF-all represents approx. 50% saving on a per user, per report basis.**
- Gas service for three users is normally priced at USD 30,000 (+taxes) a year
- Total fees for 2016 when adding Gas without corporate license would be USD 116,000 (+taxes)
- Additional USD 23,750 (+taxes) spend a year gets 3 users access to all the BNEF research